Intermional Application No PCT/JP2004/001024

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61F2/00 A61L27/38 C12N5/06 A61K31/715

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC  $\frac{7}{61L}$  C12N

A61L C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, PAJ, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
		Note Value to Glam Vo.
K	US 6 432 711 B1 (DINSMORE JONATHAN H ET AL) 13 August 2002 (2002-08-13)	1,2,8, 10-17, 22,23
<b>′</b>	abstract column 5, line 62 - column 6, line 25; examples 1-3	18-21, 24-26
	-/	

X Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document but published on or after the international filing date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul>	<ul> <li>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>*&amp;* document member of the same patent family</li> </ul>
Date of the actual completion of the international search  1 July 2004	Date of mailing of the international search report  12/08/2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31–70) 340–2040, Tx. 31 651 epo ni,  Fax: (+31–70) 340–3016	Authorized officer  Mateo Rosell, A.M.

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C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	FC1/3F2004/001024
Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	SHIMIZU TATSUYA ET AL: "Fabrication of pulsatile cardiac tissue grafts using a novel 3-dimensional cell sheet manipulation technique and temperature-responsive cell culture surfaces." CIRCULATION RESEARCH. 22 FEB 2002, vol. 90, no. 3, 22 February 2002 (2002-02-22), pages e40-E48, XP002285777 ISSN: 1524-4571 cited in the application the whole document	18-21, 24-26
Y	TERUO OKANO: "Cardiac tissue reconstruction based on cell sheet engineering"  JAPANESE CIRCULATION SOCIETY, 'Online! 2002, pages 1-4, XP002285778  Retrieved from the Internet: URL:http://www.j-circ.or.jp/english/sessions/reports/66th-ss/okano.htm> 'retrieved on 2004-06-23! the whole document	18-21, 24,26
x	WO 01/07568 A (DIACRIN INC) 1 February 2001 (2001-02-01)  page 2, lines 18-24 page 3, columns 15-24 page 33, line 14 - page 34, line 7	1,5,6, 9-17,22, 23
X	KELLAR ROBERT S ET AL: "Scaffold-based three-dimensional human fibroblast culture provides a structural matrix that supports angiogenesis in infarcted heart tissue" CIRCULATION, vol. 104, no. 17, 23 October 2001 (2001-10-23), pages 2063-2068, XP002285779 ISSN: 0009-7322 abstract page 2064, left-hand column, paragraph 2 -page 2065, right-hand column, paragraph 1 -/	1,6,10, 16,17, 22,23

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C (Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	PC17JP2004/001024
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
		rielevalit (O CIAITI NO.
A	MIYAGAWA SHIGERU ET AL: "A tissue engineered contractile cardiac graft improves the cardiac performance in infarct rat heart" 23 October 2001 (2001-10-23), CIRCULATION, VOL. 104, NR. 17 SUPPLEMENT, PAGE(S) II.599, SCIENTIFIC SESSIONS 2001 OF THE AMERICAN HEART ASSOCIATION; ANAHEIM, CALIFORNIA, USA; NOVEMBER 11-14, 2001, XP008031972 ISSN: 0009-7322 abstract	1,10-15, 17-24,26
P,A	BACH A D ET AL: "Expression of Trisk 51, agrin and nicotinic-acetycholine receptor epsilon-subunit during muscle development in a novel three-dimensional muscle-neuronal co-culture system."  CELL & TISSUE RESEARCH, vol. 314, no. 2, November 2003 (2003-11), pages 263-274, XP002285780  ISSN: 0302-766X abstract page 265, left-hand column, paragraph 4 - right-hand column, paragraph 1 page 266, right-hand column, paragraph 1 page 269, right-hand column, paragraph 1 page 270, left-hand column, paragraph 1	1,4,5,9-16

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WO 0107568	A	01-02-2001	AU AU CA EP JP WO US	770889 B3 6234600 A 2378643 A3 1200559 A3 2003505475 T 0107568 A3 2003113301 A3 6673604 B3	13-02-2001 1 01-02-2001 2 02-05-2002 12-02-2003 2 01-02-2001 1 19-06-2003

mational application No.

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BUX	No. I	Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)
1.	With inver	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed nation, the international search was carried out on the basis of:
	a.	type of material  X a sequence listing table(s) related to the sequence listing
	b.	format of material  X In written format  In computer readable form
	c.	x contained in the international application as filed filed together with the International application in computer readable form furnished subsequently to this Authority for the purpose of search
2.		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3.		Jonal comments:

### PCT REQUEST

### Original (for SUBMISSION )

VIII-5-1	Declaration: Non-prejudicial disclosure or exceptions to lack of novelty Declaration as to non-prejudicial disclosures or exceptions to lack of novelty (Rules 4.17(v) and 51bis.1(a)(v)):	in relation to this international application
	Name (LAST, First)	Cardio Incorporated declares that the subject matter claimed in this international application was disclosed as follows:
VIII- 5-1(i)	Kind of disclosure:	other: Scientific Meeting
VIII- 5-1(ii)	Date of disclosure:	28 March 2003 (28.03.2003)
VIII- 5-1(iii)	Title of disclosure:	The 67th Annual Scientific Meeting of the Japanese Circulation Society
VIII- 5-1(iv)	Place of disclosure:	Room 10
VIII- 5-1(i)	Kind of disclosure:	other: The Website on the Internet
VIII- 5-1(ii)	Date of disclosure:	28 March 2003 (28.03.2003)
VIII- 5-1(iii)	Title of disclosure:	The 67th Annual Scientific Meeting of the Japanese Circulation Society
VIII- 5-1(v)	This declaration is made for the purposes of:	all designations